



May 2004 Time Local Path Length Path Number of Estimated Width Persons Damage LAKE MICHIGAN LMZ646 Wind Pt Lt Wi To Winthrop Hbr II Kenosha 2135CST 0 0 Marine Tstm Wind (MG38) Leftover pieces of severe storms moved out over Lake Michigan and generated strong wind gusts **LMZ646** Wind Pt Lt Wi To Winthrop Hbr II 1625CST Kenosha Marine Tstm Wind (MG35) **LMZ645** North Pt Lt To Wind Pt Wi Milwaukee Harbor 1650CST Marine Tstm Wind (MG38) **LMZ665** Lm Sheboygan Wi To Winthrop Harbor II Ewd Byd 5Nm To Mid Line Of Lake 2232CST Marine Tstm Wind (MG35) Sheboygan 17 **LMZ665** Lm Sheboygan Wi To Winthrop Harbor II Ewd Byd 5Nm To Mid Line Of Lake 1800CST Sheboygan 20 Marine Tstm Wind (MG36) A broken line of thunderstorms continued to press east after producing areas of large hail and damaging winds across south-central and southeast Wisconsin, and reached the lakeshore between 1800 and 2030 CST. The Sheboygan C-Man (Sheboygan Co.) reported a wind gust of 36 knots at 1800 CST. LMZ646 Wind Pt Lt Wi To Winthrop Hbr II Kenosha 0815CST Marine Tstm Wind (MG41) **LMZ646** Wind Pt Lt Wi To Winthrop Hbr II 1 E Kenosha 21 0823CST Waterspout **LMZ646** Wind Pt Lt Wi To Winthrop Hbr II Kenosha Marine Tstm Wind (MG54) The same cluster of thunderstorms that produced areas of wind damage across parts of south-central and most of southeast Wisconsin, moved over the lake waters a short time later. Maximum wind gusts of 41 to 52 knots (47 to 60 mph) were reported at the Coastal Observing Station in Kenosha at 0815 and 0850 CST, respectively. Those storms also produced a waterspout 1 mile east of Kenosha around 0823 CST. **LMZ643** Sheboygan To Pt Washington Wi Sheboygan 1615CST Marine Tstm Wind (MG43) **LMZ645** North Pt Lt To Wind Pt Wi Milwaukee Harbor 1630CST Marine Tstm Wind (MG35) **LMZ646** Wind Pt Lt Wi To Winthrop Hbr II Kenosha Marine Tstm Wind (MG42) The second round of thunderstorms plauging southern Wisconsin during the afternoon hours, moved over the lakeshore with gusty winds. Wind gusts of 35 to 45 knots (40 to 52 mph) were reported from Sheboygan through the Milwaukee Harbor and to Kenosha from 1630 to 1715 CST. WISCONSIN, Southeast

Jefferson County 5 SW Ft Atkinson to Ft Atkinson	07	0050CST	0)	0	Hail(0.75)
Lafayette County 2 SW Benton to 5 ESE Shullsburg	07	1653CST 1715CST	0)	0	Hail(1.00)

Isolated severe thunderstorms popped up and produced large hail. This day would be the first of 6 or 7 consecutive days with thunderstorms and possible severe weather across south-central and southeast Wisconsin due to a stangant weather pattern that allowed several cold fronts to stall over Illinois and then move north as a warm front the next day





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Per Killed	aber of rsons Injured	Estir Dar Property	nated mage Crops	Character of Storm	May 2004
Location	Date	Standard	(IVIIIes)	(Taius)	Killeu	Injured	Floperty	Clops	Character of Storm	
WISCONSIN, South	<u>east</u>									
Sheboygan County	00	0.400 CCT			0	0			п в	
Sheboygan	08	0400CST 0900CST			0	0			Heavy Rain	
Dane County										
1 N Sun Prairie	08	0537CST			0	0			Hail(0.75)	
Sauk County										
Lake Delton to Reedsburg	08	1915CST 2230CST			0	0	25K		Flash Flood	
Recuspung	Basen	nents flooded alo	ng with gravel	washouts an	d roads clo	sed as wat	ter levels ro	se to 1 foot	deep.	
Fond Du Lac County										
Fond Du Lac	08	1920CST			0	0	25K		Flash Flood	
	Some	2230CST water damage to	homes and bu	sinesses Gr	avel washo	outs and so	me roads cl	osed due to	water depths of 1 foo	of.
	Some	water damage to	nomes and ou	J	avor wasire	and so	10440 01	osea aue t	water deputs of 1 for	
Cross Lake County										
Green Lake County Markesan	08	1926CST			0	0	25K		Flash Flood	
Trial Result		2230CST								
	Basen	nents flooded alo	ng with gravel	washouts an	d roads clo	sed as wat	ter levels ro	se to 1 foot	deep.	
Sauk County										
Reedsburg	08	2030CST 2200CST			0	0			Heavy Rain	
Sauk County										
5 NW Rock Spgs	08	2039CST			0	0			Hail(0.75)	
Sauk County										
North Freedom	08	2055CST			0	0			Hail(0.75)	
Waukesha County										
4 S Waukesha	08	2058CST 2100CST			0	0			Hail(0.75)	
		2100CS1								
Milwaukee County Greendale	08	2100CST			0	0			Heavy Rain	
Greenuale	Vo	2300CST			U	U			Heavy Kain	
Racine County										
Union Grove	08	2139CST			0	0			Hail(0.75)	
Kenosha County										
Kenosha	08	2215CST			0	0			Hail(0.75)	
	CII .	12 1 .	C .1 1 .	C .	1			1.1 1	.1 . 1 1 .	1 . ***** *

Short lines or clusters of thunderstorms, some of them severe with large hail, moved through south-central and southeast Wisconsin. Due to intense rainfalls and training of storms, heavy rains occurred in some locations. This was especially true from northern Sauk County through southern Marquette County and over to Sheboygan County. WSR-88D Doppler radar rainfall amounts ranged from 2 to 4 inches within 1 to 2 hours. Consequently, flash flooding occurred over parts of northern Sauk County, eastern Green Lake County, and central Fond du Lac County, where some roads were closed due to water depths of 1 to 3 feet and gravel shoulder washouts. A number of homes also had moderate basement flooding in these areas. Urban/small stream flooding occurred in and around the city of Sheboygan (Sheboygan Co.) during the morning hours after 3.12 inches of rain fell overnight. A couple cars stalled in water covering low-lying areas of the city, and some basements had water infiltration. Minor urban flooding due to heavy rains was also reported from the Reedsburg (Sauk Co.) and Greendale (Milwaukee Co.) areas. Refer to the Green Lake County May 25th flood event for additional information





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perse Killed		Estimat Dama Property	ed ge Crops	May 2004 Character of Storm
		Stalldard	(Willes)	(Tarus)	Killed	mureu	Froperty	Clops	Character of Storm
WISCONSIN, Souther	<u>ast</u>								
Racine County	00	1200 CCT			0	0			и в
Caledonia	09	1200CST 1400CST			0	0			Heavy Rain
Racine County Burlington	09	1251CST			0	0			Thunderstorm Wind (MG50)
Dodge County Waupun	09	2240CST			0	0			Hail(0.75)
···aupun	Scatte the Bu	red thunderstorms	cine Co.) as v	winds gusted	limits, generato 50 kts (58	ated large 8 mph). E	łeavy rains o	f 2 inches	s. Some large trees were uprooted in s in 1 to 2 hours in the Caledonia area
Milwaukee County Wauwatosa to 7 NW Milwaukee	10	1230CST			0	0			Hail(1.00)
Milwaukee County Brown Deer	10	1930CST 2030CST			0	0			Heavy Rain
		ered thunderstorms							and dumped large hail that covered the one low-lying road briefly impassible.
Marquette County	-10	1 C = 2 C/C = 1							
1 S Packwaukee Green Lake County	12	1653CST			0	0			Thunderstorm Wind (EG52)
5 S Berlin	12	1700CST 1705CST			0	0			Hail(0.75)
Marquette County 6 NE Montello	12	1720CST			0	0			Hail(0.75)
Marquette County 6 NE Montello	12	1720CST			0	0			Thunderstorm Wind (EG52)
o NE Monteno	Short with	lines or clusters of			ough parts o	f south-ce			sconsin. Some of them became severe the Packwaukee to Montello area of
Columbia County									
Portage	_	1035CST ning struck the channel and computer	•		-		-	A hole v	Lightning was blown through the roof, and the
WIZ072	Kenos	sha							
	14 31	0145CST 2359CST			0	0	960K	500K	Flood
	The F May 2 crops contro consul	Fox River at New 24th at 1900 CST, and flooding base of facility totaled \$, 3.72 feet about the results. The results and 290,000, and	ove flood stag river fell below damage to p	ge. At this c w flood stage ublic buildin	rested level e on June 6 ags and pu	el, moderate 6th. Damage blic utilities t	flooding of to roads totaled \$3	T. The river crested at 13.72 feet on occurred in low lying areas, damaging totaled \$192,000, damage to the water 62,000. For more information, please y May 25th flood event for additional
Dane County Madison	17	1800CST 1930CST			0	0			Heavy Rain



Racine County

1 W Racine

1922CST

20

National Weather Service Storm Data and Unusual Weather Phenomena



Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of sons Injured	Estimate Damag Property C	e	May 2004
WISCONSIN, Southea	<u>st</u>								
Sauk County Spring Green	17	1827CST 1837CST			0	0		Hail(0	75)
Sauk County Spring Green	17	1827CST			0	0		Thund	erstorm Wind (EG52)
Iowa County 5 W Arena	17	1835CST			0	0		Hail(0.	75)
Jefferson County Jefferson	17	1930CST 2100CST			0	0		Heavy	Rain
Dane County 2 N Utica	17	1940CST			0	0		Thund	erstorm Wind (EG56)
Green County Brodhead	17	2005CST			0	0		Funne	l Cloud
Jefferson County Watertown	17	2015CST			0	0		Thund	erstorm Wind (MG52)
Rock County Beloit to Clinton	17	2028CST 2035CST			0	0		Thund	erstorm Wind (EG56)
	winds Clinto (Dane	gusting to 56 kt n area of Rock C	s (65 mph) wounty. As usferson (Jeffers	vere generate ual, the accor son Co.) whe	d. Large tre npanying he re rainfall o	ees and so eavy rains	ome power pol resulted in urb	les were damaged ban flooding (wate	l and damaging straight-line , especially in the Beloit to er over the curb) in Madison d. Refer to the Green Lake
Dodge County Waupun to 2.8 SE Lomira	20	0245CST 0600CST			0	2		Heavy	Rain
Sheboygan County 1 W Random Lake	southe in urb which	east Wisconsin. H an/small stream f	Heavy rains in looding. In a	the Waupun ddition, a 2-v	to Lomira a ehicle accid	area (Dodg dent occur	ge Co.) during red near Lomi	the early morning ra. Two people v	ing ins across south-central and hours of May 20th resulted vere injured in this accident, e resultant fire destroyed the
Green County Brodhead	20	1730CST			0	0	1K	Lightn	ing
Kenosha County Salem	20	1835CST			0	0		Hail(1	00)
Kenosha County 2 NW Pleasant Prairie	20	1839CST			0	0		Hail(1	50)
Kenosha County 1 SE Paddock Lake	20	1853CST			0	0	25K	Thund	erstorm Wind (EG61)
Kenosha County .5 NNW Salem to 5 NE Paddock Lake	20	1900CST 1930CST			0	0	300K 3	300K Flash	Flood

Hail(1.00)





		Time Local/	Path Length	Path Width	Numbe	Number of Persons		nated nage		May 2004
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
WISCONSIN, Souther	<u>ast</u>									
Racine County 1 SE Elmwood Park	20	1923CST			0	0			Hail(1.75)	
Racine County 1 SE Elmwood Park	20	1923CST			0	0			Hail(1.75)	
Kenosha County 4 NNW Kenosha to 4 WNW Kenosha	20	1931CST			0	0			Hail(1.00)	
Racine County 1 W Racine	20	1936CST			0	0			Hail(3.00)	
Kenosha County 5 NW Kenosha	20	1950CST 2100CST			0	0	100K	200K	Flash Flood	
Racine County 3 S Sturtevant	20	1950CST 2100CST			0	0	100K	300K	Flash Flood	

Severe weather round #2 on May 20th featured damaging straight-line winds, large hail (up to golfball size), and flash flooding as several short lines or clusters of thunderstorms moved across south-central and southeast Wisconsin. In the Paddock Lake area (Kenosha Co.), the powerful wind gust to 56 kts (65 mph) toppled large trees, with one falling onto a home. Flash flooding over Kenosha County was the result of slow-moving, training thunderstorms that dumped 2.54 inches of rain in Paddock Lake within 45 minutes. Water levels in this city quickly rose to 1 to 3 feet, resulting in floating or stalled cars, damage to basements, and gravel washouts. In addition, mudslides and severe crop erosion occurred in the surrounding countryside. In Somers Township (5 NW of Kenosha in Kenosha Co.), almost one-half of the roads were under water, gravel washouts were common, and basement damage was noted. Gravel washouts and basement flooding were also reported south of Sturtevant (Racine Co.). Refer to the Green Lake County May 25th flood event for additional information. Lightning struck a home in Brodhead, resulting in a minor fire.

Ozaukee County 2.5 N Port Washington	21	0430CST	0	0	100K		Lightning
	21	0430CS1	U	U	100K		Lightning
Dane County	•	0.500 CCM					
Sun Prairie	21	0500CST 0700CST	0	0			Heavy Rain
Lafayette County							
3 N Belmont	21	0629CST	0	0			Thunderstorm Wind (EG52)
Washington County							
Slinger	21	0700CST 0830CST	0	0			Heavy Rain
WIZ059	Washi	ngton					
	21	0700CST 0830CST	0	0	353K	150K	Flood
Washington County							
Hartford to Newburg	21	0718CST 0730CST	0	0	350K		Thunderstorm Wind (EG78)
Dane County							
Madison	21	0720CST	0	0	150K		Lightning
Rock County							
Beloit	21	0730CST	0	0			Thunderstorm Wind (EG50)
Rock County							
1 SW Clinton	21	0735CST	0	0			Thunderstorm Wind (EG50)
Ozaukee County							
Cedarburg to	21	0740CST	0	0	50K		Thunderstorm Wind (MG52)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured Pro		Estimated Damage Property Crops	May 2004 Character of Storm
WISCONSIN, South		Standard	(ivines)	(Tards)	Kineu	mjured	Property Crops	Character of Storin
Grafton								
Ozaukee County Port Washington	21	0748CST			0	0	150K	Thunderstorm Wind (EG65)
Rock County Janesville	21	0753CST			0	0		Thunderstorm Wind (EG50)
Walworth County La Grange	21	0810CST			0	0		Thunderstorm Wind (EG56)
Kenosha County Kenosha	21	0820CST			0	0		Thunderstorm Wind (EG52)
Kenosha County Twin Lakes	21	0835CST			0	0		Thunderstorm Wind (EG52)
Racine County Sturtevant	21	0850CST			0	0		Thunderstorm Wind (EG56)
Ozaukee County Port Washington	21	1630CST			0	0	25K	Lightning

A morning round of severe thunderstorms affected parts of south-central and most of southeast Wisconsin, bringing with it mostly reports of damaging wind. Some of the stronger wind reports occurred in Washington and Ozaukee County where pockets of widespread tree and structural damage resulted. Hundreds of trees were toppled which crashed onto the roofs of many homes and vehicles from Hartford to Newburg in Washington County. Damage was estimated at nearly 350,000 dollars. Winds were estimated at 78 knots (90 mph) based on damage reports. In Ozaukee County, winds toppled trees which crushed 4 vehicles and 6 homes causing about 150,000 dollars in damage. Trees were also uprooted and deposited on Interstate 43 near Port Washington. Winds were estimated at 65 knots (75 mph), or hurricane strength. Other reports of damaging winds were noted across Dane, Rock, Walworth, Racine, and Kenosha counties with mainly scattered areas of tree damage. In addition to damaging winds, areas of urban and low lying flooding were reported in Sun Prairie and Slinger. Water was over the curbs in Sun Prairie and water was reported to have covered Highway 60 in Slinger. Water damage to basements, roads, water control systems, public buildings and public utilities totaled 353,000 dollars in Washington County. Lightning was reported to have started two buildings on fire in and near Port Washington (Ozaukee Co.) and is believed to have started an apartment complex on fire in Madison as well. Total lightning and fire damage was estimated at 125,000 dollars in Port Washington and 150,000 dollars in Madison (Dane Co.).

Sauk County Reedsburg	21	1430CST	0	0	25K		Lightning
Dane County Windsor	21	1502CST	0	0			Thunderstorm Wind (EG52)
Dane County De Forest	21	1506CST	0	0			Thunderstorm Wind (EG52)
Milwaukee County 1.5 E Brown Deer	21	1530CST 1630CST	0	0			Heavy Rain
Waukesha County 2 SE Pewaukee	21	1613CST	0	0			Thunderstorm Wind (MG56)
Dane County Madison	21	1730CST 1800CST	0	0			Heavy Rain
Kenosha County Twin Lakes to	21	1815CST	0	0	200K	100K	Flash Flood





May 2004 Time Local Path Length Number of Estimated Width Persons Damage WISCONSIN, Southeast 2100CST Kenosha **Racine County** 1830CST 2115CST Union Grove to Franksville 100K Flash Flood 21 A second round of thunderstorms on May 21st came rolling into south-central and southeast Wisconsin later in the afternoon and evening bring more damaging wind gusts, heavy rain, and lightning. Trees were reported down across mostly Dane County as a small, but intense, cluster of thunderstorms moved through. Trees were reported down in De Forest and Windsor as a result of 52 knot estimated winds (60 mph). These thunderstorms, in addition to more thunderstorms across southeast Wisconsin, brought heavy rain and localized flooding to parts of southern Wisconsin. Heavy rain and flooding in Kenosha and Twin Lakes caused 200,000 dollars in property damage (mainly basements, gravel washouts, and crop erosion), flash flooding across Racine County caused roads to flood and gravel to be washed out, and urban flooding near Brown Deer closed major intersections. Refer to the Green Lake County May 25th flood event for additional information. Lightning struck a garage and set it on fire near Reedsburg causing 25,000 dollars in damage. **WIZ071** Racine 1950CST **72K** 50K Flood 21 25 1452CST The Root River Canal at Raymond rose above its flood stage of 9 feet on May 21st at 1950 CST. The river crested at 11.26 feet on May 23rd at 1400 CST, 2.26 feet above flood stage. At this crested level, moderate flooding occurred. Damage to lowland crops and home basements was noted along the Root River Canal. The river fell below flood stage on May 25th at 1452 CST. **WIZ067** Lafayette Flood 22 25 0 0 50K 50K The East Branch Pecatonica River at Blanchardville rose above its flood stage of 11 feet on May 22nd at 1237 CST. The river crested at 13.62 feet on May 24th at 0345 CST, 2.62 feet above flood stage. At this crested level, minor flooding occurred. Damage to lowland crops and home basements was noted along the East Branch Pecatonica River. The river fell below flood stage on May 25th at 0840 CST. WIZ056-056 Sauk 200K Flood 22 29 The Baraboo River at Baraboo rose above its flood stage of 16 feet on May 22nd at 1556 CST. The river crested at 19.67 feet on May 26th at 0330 CST, 3.67 feet above flood stage. At this crested level, minor flooding occurred. The river fell below flood stage on May 29th at 0748 CST. The Baraboo River at Rock Springs rose above its flood stage of 18.5 feet on May 23rd at 1342 CST. The river crested at 20.99 feet on May 25th at 0700 CST, 2.49 feet above flood stage. At this crested level, major flooding occurred. An estimated 200K dollars in crop damage was reported along the Baraboo River. The river fell below flood stage on May 27th at 1828 CST. **Iowa County** Blanchardville 22 2305CST Thunderstorm Wind (EG56) Lafayette County 2330CST 100K 200K Flash Flood Benton

Lafayette County

Darlington 22 2345CST 0 0 Flash Flood

Several reports of houses flooded, people evacuated, mudslides destroyed freshly planted crops.





		Time Local/	Path Length	Path Width (Yards)	th Persons		Estimated Damage		May 200	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
WISCONSIN, South	<u>east</u>									
	23	0300CST								
Green County New Glarus	23	0005CST			0	0			Hail(0.75)	
Green County New Glarus	23	0005CST			0	0	25K		Thunderstorm Wind (EG52)	
Green County 4 N New Glarus to Monticello	23	0030CST 0300CST			0	0	100K	200K	Flash Flood	
Montreeno	A muc	dslide destroyed f	reshly planted	crops and so	me baseme	nts were f	flooded			
Dane County										
Paoli	23	0031CST			0	0			Hail(1.00)	
Dane County 3 NW Stoughton	23	0045CST			0	0			Hail(0.75)	
Sauk County										
Plain to Baraboo	23	0045CST 0400CST			0	0	150K	300K	Flash Flood	
Dane County Blue Mounds to Marxville	23	0100CST 0400CST			0	0	100K	300K	Flash Flood	
Iowa County Highland to Arena	23	0200CST 0400CST			0	0	100K	300K	Flash Flood	
Marquette County Packwaukee to Westfield	23	0300CST 0630CST			0	0	50K	200K	Flash Flood	
Dane County Fitchburg to Madison	23	0330CST 0630CST			0	0	200K		Flash Flood	
Rock County 1 E Milton	23	0410CST			0	0			Thunderstorm Wind (EG52)	
Walworth County									()	
4 NE Lake Geneva	23	0440CST	understorms	mainly consi	0	0	50K	amaoino w	Thunderstorm Wind (EG65)	

A large complex of thunderstorms, mainly consisting of very heavy rain and damaging winds, raked through most of southern Wisconsin during the early morning hours. This was round number one for the day. Flash flooding was the main threat due to recent heavy rain and saturated ground. This flash flooding mainly affected south-central Wisconsin consisting of Dane, Sauk, Iowa, Lafayette, and Green counties. Lafayette and Green counties were hit especially hard. Flash flooding in Benton (Lafayette County) caused people to be evacuated from their homes. 100,000 dollars in costs resulted from flood damage. Flash flooding in Darlington (Lafayette County) caused mudslides to occur in farmers fields (destroying recently planted crops) and caused basements to flood, causing another 75,000 dollars in damage. Flash flooding in Marquette, Sauk, western Dane, and Iron counties consisted of gravel washouts, mudslides, and basement damage. In addition, flash flood rains forced a roof of a building to collapse, and basement/foundation damage was inflicted on an apartment complex. Damaging winds of 50 to 56 knots (58 to 65 mph) was the result from a small line of severe thunderstorms which produced scattered areas of tree damage form Lafayette County through Walworth County. Northeast of Lake Geneva, powerful thunderstorm winds blew a pole shed down and snapped power lines. Trees and power lines were reported down in Blanchardville, New Glarus, and Lake Geneva. Refer to the Green Lake County May 25th flood event for additional information.

WIZ068-068

Green

23 0530CST

0

1K

200K

Flood





		Time	Path	Path Path Number of		Estin	nated		May 2004	
		Local/	Length	Width		Persons		nage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WISCONSIN, Southeast

30 0607CST

The Sugar River at Brodhead rose above its flood stage of 5 feet on May 23rd at 0530 CST. The river crested at 8.30 feet on May 25th at 0415 CST, 3.30 feet above flood stage. At this crested level, minor flooding occurred. Crop damage along the Sugar River was reported. It fell below flood stage on May 27th at 2235 CST. The Pecatonica River at Martintown rose above its flood stage of 13.5 feet on May 24th at 1945 CST. The river crested at 16.42 feet on May 26th at 1815 CST, 2.92 feet above flood stage. At this crested level, minor flooding occurred. The river fell below its flood stage on May 30th at 0607 CST.

WIZ060 Ozaukee

23 0537CST 0 0 135K
25 0026CST

The Milwaukee River at Cedarburg rose above its flood stage of 10 feet on May 23rd at 0537 CST. The river crested at 13.19 feet on May 23rd at 2145 CST, 2.49 feet above flood stage. At this crested level, moderate flooding occurred. Damage to road systems, public buildings, public utilities, and basements were reported. The river fell below flood stage on May 25th at 0026 CST.

Flood

WIZ052 Sheboygan

23 0845CST 0 0 100K Flood 24 2054CST

The Sheboygan River at Sheboygan rose above its flood stage of 8 feet on May 23rd at 0845 CST. The river crested at 9.29 feet on May 23rd at 2330 CST, 1.29 feet above flood stage. At this crested level, minor flooding occurred. Basement flooding and public utility damage was reported along the Sheboygan River. The river fell below flood stage on May 24th at 2045 CST.

WIZ057 Columbia

23 1200CST 0 0 100K 300K Flood 31 2359CST

Lowland flooding began to result after several rounds of heavy rain during the month of May. Road system damage, public building damage, public utility damage, basement damage, and crop damage was reported across Columbia County.

Columbia County 2 N Arlington	23	1720CST			0	0	Funnel Cloud	
Dane County 3 S Oregon	23	1725CST			0	0	Hail(1.00)	
Dane County 3 W Stoughton	23	1735CST			0	0	Hail(0.75)	
Rock County 2 E Evansville	23	1744CST			0	0	Funnel Cloud	
Dane County 6 NW Madison	23	1753CST			0	0	Funnel Cloud	
Dane County 3.3 ESE Stoughton to 3.8 WNW Albion	23	1755CST 1756CST	1	25	0	0	Tornado (F0)	

An advanced spotter videotaped a tornado that briefly spun up at 1755 CST, 3.3 miles east-southeast of Stoughton (Dane Co.), and dissipated at 1756 CST, 3.8 miles west-northwest of Albion (Dane Co.). The tornado's path was only a mile long and the width was about 25 yards. No damage was reported and this tornado was deemed an F0. The average path width was about 25 yards.

Dane County

 1.2 SE De Forest to
 23
 1759CST
 1.3
 25
 0
 0
 Tornado (F0)

 1.9 E De Forest
 1804CST

A tornado spun up 1.2 miles southeast of DeForest (Dane Co.) around 1759 CST, and dissipated around 1804 CST, 1.9 miles east





		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage			May 2004
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WISCONSIN, Southeast

of De Forest (Dane Co.). Specifically, it spun up just northeast of the intersection of STH 51 and Vinburn Rd. and ended about 0.1 mile southwest of the intersection of Mueller Rd. and Portage Rd. The tornado's path was 1.3 miles long and 25 yards wide. No damage was reported and this tornado was determined to be an F0. Average width was about 25 yards.

Dane County 3 NNE Albion	23	1800CST			0	0	Hail(0.75)
Dodge County Reeseville	23	1813CST			0	0	Funnel Cloud
Jefferson County Jefferson	23	1820CST			0	0	Hail(0.75)
Jefferson County 3 S Johnson Creek	23	1820CST			0	0	Hail(0.75)
Waukesha County 2 NE Delafield	23	1824CST			0	0	Hail(1.00)
Columbia County 2 SW Fall River to 2.1 SW Fall River	23	1825CST	0.1	25	0	0	Tornado (F0)

A tornado spun up very briefly at 1825 CST, 2 miles southwest of Fall River in Columbia County. A storm survey determined the tornado's path was only a tenth of a mile and the width was about 25 yards. Its estimated position is about 0.3 mile west-northwest of the intersection of Hall Rd. and Freck Rd. No damage was reported and it was determined the tornado was an F0.

Dodge County 2 N Beaver Dam	23	1852CST	0	0	Hail(0.75)
Waukesha County 1 S Oconomowoc	23	1853CST	0	0	Hail(0.88)
Dodge County 6 SW South Beaver Dan	1 23	1855CST	0	0	Funnel Cloud
Dodge County Kekoskee	23	1859CST	0	0	Hail(1.00)
Ozaukee County Countywide	23	1900CST 2030CST	0	0	Heavy Rain
Waukesha County Delafield	23	1907CST	0	0	Funnel Cloud
Waukesha County 1 NE Menomonee Falls	23	1913CST	0	0	Funnel Cloud
Waukesha County Menomonee Falls	23	1935CST	0	0	Hail(1.00)
Sheboygan County 7 W Cascade	23	1939CST 1941CST	0	0	Hail(0.75)
Milwaukee County Brown Deer	23	1941CST	0	0	Hail(1.00)
Ozaukee County Mequon	23	1943CST	0	0	Hail(1.50)
Ozaukee County 10 S Port Washington	23	1943CST	0	0	Hail(1.50)
Ozaukee County Mequon	23	1945CST	0	0	Hail(0.75)





	Time	Path	Path	Number of		Estimated			May 2004
	Local/	Length	Width	Perso		Dan	nage		
Location Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WISCONSIN, Southeast

Milwaukee County Brown Deer Sheboygan County 2 S Plymouth

23 1948CST 0 0 Hail(1.50)

23 1955CST 0 0 Hail(0.75)

Moist and unstable air along a stalled frontal boundary set the stage for supercell thunderstorm development during the afternoon and evening hours. This was round number two for the day. Numerous supercells developed across southern Wisconsin by the late afternoon hours, which produced three tornadoes, numerous funnel clouds, several large hail reports, and heavy rains. Funnel cloud reports were collected from Columbia, Dane, Rock, Dodge, and Waukesha counties between 1720 CST and 1913 CST. The first tornado spun up 3.3 miles east-southeast of Stoughton (Dane Co.), the second tornado spun up 1.2 miles southeast of De Forest (Dane Co.), and the third tornado spun up 2 miles southwest of Fall River (Columbia Co.). All three tornadoes had no damage associated with them and were all classified as F0s (for detailed path lengths, path widths, and spin up and dissipating points, please consult details above). In addition to tornadoes, funnel clouds, and large hail, these storms produced heavy rain. Urban flooding resulted across Ozaukee County after storms produced 1.25 inches of rain in only a 30 minute period. A few roads were closed and gravel washouts were common. Refer to several flood and flash flood events for May 23rd, 24th, and 25th, for related information.

WIZ069 Rock

24 0122CST 0 0 300K 500K Floor 31 2359CST

The Rock River at Afton rose above its flood stage of 9 feet on May 24 at 0122 CST and crested on June 1st. The river fell below its flood stage on July 8th. The Rock River at Newville rose above its flood stage of 10 feet on May 26 at 1430 CST and crested on June 6th. Water damage to road systems, parks, treatment plants, and basements was noted along most rivers and streams. In addition, crop damage and erosion was moderate to severe in low lands. The Rock River at Newville fell below its flood stage on July 6th. For more information, please refer to the June 2004 and July 2004 editions of StormData. Refer to the narrative for the May 25th flood event in Green Lake County for related details.

WIZ064 Jefferson

24 1632CST 0 0 500K 500K Floor 31 2359CST

The Rock River at Jefferson rose above its flood stage of 10 feet on May 24th at 1632 CST. The Rock River at Jefferson crested on June 3rd at 11.51 feet. The Crawfish River at Milford rose above its flood stage of 7 feet on May 25th at 0400 CST. The river crested on June 2nd at 8.57 feet. Water damage to road systems, parks, treatment plants, and basements was noted along most rivers and streams. In addition, crop damage and erosion was moderate to severe in low lands. For more information, please refer to the June 2004 edition of StormData. Refer to the narrative of the May 25th flood event in Green Lake County for related details.

WIZ047 Green Lake

25 2115CST 0 0 300K 200K Flood



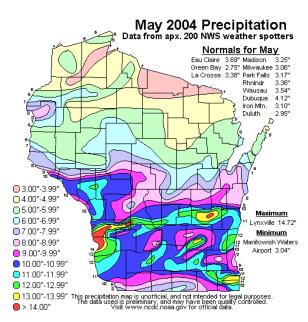


Time Path Path Number of Estimated May 2004

Local/ Length Width Persons Damage

Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

WISCONSIN, Southeast



The Fox River at Berlin rose above its flood stage of 13 feet on May 25th at 2115 CST. The river crested on June 18th at 16.24 feet, 3.24 feet above flood stage. Water damage to road systems, parks, treatment plants, and basements was noted along most rivers and streams. In addition, crop damage and erosion was moderate to severe in low lands. For more information, please refer to the June 2004 edition of StormData.

Several all-time monthly record precipitation totals (for any month) were recorded during May across south-central and southeast Wisconsin. Official totals that broke these records include: 13.85" in Union Grove (Racine Co.), 13.55" in Racine (Racine Co.), 13.47" in Fond du Lac (Fond du Lac Co.), 12.83" in Germantown (Washington Co.), 12.16" in Burlington (Racine Co.), 12.01" 5 miles northeast of Ripon (Fond du Lac Co.) 11.26" in Fort Atkinson (Jefferson Co.), and 11.09" in Stoughton (Dane Co.). Twenty-four other stations broke monthly precipitation records. Unofficially, a monthly total of 15.26 inches was measured on the south side of the city of Fond du Lac (Fond du Lac County), at the home of the public works director. There was another unnofficial 15+ inch report near Cedarburg (Ozaukee Co.), and an unofficial 14+ inch report from near La Grange (Walworth Co.). The majority of the monthly rain across south-central and southeast Wisconsin came during the periods of May 7-14, and May 20-23

Minor to major river flooding was a concern due to widespread monthly rainfall amounts of 8 to 14 inches. The following locations had crests at or above 2 feet above flood stage sometime during the month of May: the Baraboo River at Baraboo, 3.7 feet, the Fox River at New Munster, 3.7 feet, the Sugar River at Brodhead, 3.3 feet, the Pecatonica River at Martintown, 2.9 feet, the east branch of the Pecatonica River at Blanchardville, 2.6 feet, the Baraboo River at Rock Springs, 2.5 feet, the Root River Canal at Raymond, 2.3 feet, and the Milwaukee River at Cedarburg, 2.2 feet. Most of south-central and southeast Wisconsin has not experienced such widespread flooding since 1993, and some areas haven't seen such severe flooding in 20 to 25 years.

Areas of flooding across south-central and southeast Wisconsin resulted in property and crop damage. The following counties experienced significant flood damage and received a national presidential declaration: Columbia, Dane, Fond du Lac, Green, Kenosha, Ozaukee, Racine, Sheboygan, and Washington. According to the Wisconsin Uniform Disaster Situation Report, about \$197,508 in spending resulted from debris clearance across those counties, about \$217,963 in spending resulted from emergency protective measures, about \$330,954 in damage to road systems, about \$306,000 in damage water control facilities, about \$76,854 from public building damage, about \$755,369 from public utility damage, and \$184,016 from other expenses. Total expenses come to about \$1,991,810. Two-hundred homes and 10 businesses reported minor flood damage in Columbia County; 989 homes reported minor flood damage in Fond du Lac County; 68 homes and 15 businesses reported minor flood damage in Ozaukee County; and 11 homes and 1 business reported minor flood damage, and 1 home reported major flood damage in Racine County.

Heavy rain during the month of May resulted in widespread flooding in farmers' fields, resulting in extensive crop damage. Many farmers had to wait several weeks to replant once flood waters receded, delaying the growing season 3 to 4 weeks. At the end of May, many farmers had only planted 35 to 40% of their corn crop (75 to 80% is normal), and only 5 to 10% of their soybean crop (50 to 60% is normal). Heavy rains during the month of May contributed directly to the aid of the replenishing of Lake Michigan water levels. Water levels had dropped as much as 4 feet between the years of 1997 and 2003. In May alone, water levels rose 11 inches in response to heavy rain and significant run off.